



SEQUENCE LISTING

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<120> COMPOUNDS AND METHODS FOR MODULATING CLAUDIN-MEDIATED
FUNCTIONS

<130> 100086.409

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<211> 8
<212> PRT
<213> Unknown

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<223> Where Xaa is either Lysine or Arginine

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residue

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residue

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<223> Description of Unknown Organism: Consensus
Claudin Cell Adhesion Recognition Sequence

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<210> 2

<211> 4

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Product of
Synthesis based on Mouse Claudin-1 Cell Adhesion
Recognition Sequence

<400> 2

Ile Tyr Ser Tyr
1

<210> 3

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Product of
synthesis based on mouse claudin-2 cell adhesion
recognition sequence

<400> 3

Thr Ser Ser Tyr
1

<210> 4

<211> 4

<212> PRT

<213> Mus musculus

<220>

<223> Description of Artificial Sequence: Product of
synthesis based on human, mouse and Monkey CPE-R
cell adhesion recognition sequence

<400> 4

Val Thr Ala Phe
1

<210> 5

<211> 4
 <212> PRT
 <213> Artificial Sequence

<220>

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 synthesis based on human and rat RVP-1 cell
 adhesion recognition sequence

<400> 5
 Val Ser Ala Phe
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<210> 6
 <211> 42
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 Pro Gln Trp Lys Ile Tyr Ser Tyr Ala Gly Asp Asn Ile Val Thr Ala
 1 5 10 15

Gln Ala Ile Tyr Glu Gly Leu Trp Met Ser Cys Val Ser Gln Ser Thr
 20 25 30

Gly Gln Ile Gln Cys Lys Val Phe Asp Ser
 35 40

<210> 7
 <211> 42
 <212> PRT
 <213> Mus musculus

<400> 7
 Pro Asn Trp Arg Thr Ser Ser Tyr Val Gly Ala Ser Ile Val Thr Ala
 1 5 10 15

Val Gly Phe Ser Lys Gly Leu Trp Met Glu Cys Ala Thr His Ser Thr
 20 25 30

Gly Ile Thr Gln Cys Asp Ile Tyr Ser Thr
 35 40

<210> 8
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 8
 Pro Met Trp Arg Val Thr Ala Phe Ile Gly Ser Asn Ile Val Thr Ser
 1 5 10 15

Gln Thr Ile Trp Glu Gly Leu Trp Met Asn Cys Val Val Gln Ser Thr
 20 25 30

Gly Gln Met Gln Cys Lys Val Tyr Asp Ser
 35 40

<210> 9
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<400> 9
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 1 5 10 15

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 20 25 30

Gly Gln Met Gln Cys Lys Met Tyr Asp Ser
 35 40

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 <211> 42
 <212> PRT
 <213> Chlorocebus aethiops

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 1 5 10 15

Gln Thr Ile Trp Glu Gly Leu Trp Met Asn Cys Val Val Gln Ser Thr
 20 25 30

Gly Gln Met Gln Cys Lys Val Tyr Asp Ser
 35 40

<210> 11
 <211> 42
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 <213> Homo sapiens

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 1 5 10 15

Gln Asn Ile Trp Glu Gly Leu Trp Met Asn Cys Val Val Gln Ser Thr
 20 25 30

Gly Gln Met Gln Cys Lys Val Tyr Asp Ser
 35 40

<210> 12
 <211> 41
 <212> PRT
 <213> Rattus norvegicus

<400> 12
 Pro Met Trp Arg Val Ser Ala Phe Ile Gly Ser Ser Ile Ile Thr Ala
 1 5 10 15
 Gln Ile Thr Trp Glu Gly Leu Trp Met Asn Cys Val Gln Ser Thr Gly
 20 25 30
 Gln Met Gln Cys Lys Met Tyr Asp Ser
 35 40

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 <212> PRT
 <213> Unknown

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 <222> (7)
 <223> Where Xaa is either Alanine or Serine

<220>
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<223> Where Xaa is either Tyrosine or Phenylalanine

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<223> Where Xaa is an independently selected amino acid
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<222> (12)
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<223> Where Xaa is either Valine or Isoleucine

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<222> (16)
<223> Where Xaa is either Alanine or Serine

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<223> Where Xaa is either Glutamine or Valine

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<223> Where Xaa is either Glutamine or Isoleucine

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<223> Where Xaa is an independently selected amino acid residue

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<222> (38)

<223> Where Xaa is either Lysine or Aspartic Acid

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<222> (39)

<223> Where Xaa is Valine, Isoleucine or Methionine

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<221> MOD_RES

<222> (40)

<223> Where Xaa is either Phenylalanine or Tyrosine

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 <223> Where Xaa is either Aspartic Acid or Serine

<220>
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<400> 13
 Pro Xaa Trp Xaa Xaa Xaa Xaa Xaa Xaa Gly Xaa Xaa Ile Xaa Thr Xaa
 1 5 10 15
 Xaa Xaa Xaa Xaa Xaa Gly Leu Trp Met Xaa Cys Xaa Xaa Xaa Xaa Thr
 20 25 30
 Gly Xaa Xaa Gln Cys Xaa Xaa Xaa Xaa Xaa
 35 40

<210> 14
 <211> 8
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<220>
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 Synthesis based on mouse claudin-1 sequence

<400> 14
 Ile Tyr Ser Tyr Ile Tyr Ser Tyr
 1 5

<210> 15
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Product of
 synthesis based on mouse claudin-1 sequence

<400> 15
 Gln Ile Tyr Ser Tyr Gln Ile Tyr Ser Tyr Gln Ile Tyr Ser Tyr
 1 5 10 15

<210> 16
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Product of synthesis. N-CAM binding sequence

<400> 16

Lys Tyr Ser Phe Asn Tyr Asp Gly Ser Glu
1 5 10

<210> 17

<211> 4

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Product of Synthesis. Occludin cell adhesion recognition sequence

<400> 17

Leu Tyr His Tyr
1

<210> 18

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Product of synthesis based on mouse claudin-1 sequence

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<221> MOD_RES

<222> ()

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<400> 18

Cys Ile Tyr Ser Tyr Xaa
1 5

<210> 19

<211> 6

<212> PRT

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<223> Cyclic Peptide

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<221> MOD_RES
 <222> (
 <223> Where Xaa is beta,beta-tetramethylene cysteine

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 <223> Description of Artificial Sequence: Product of
 synthesis based on mouse claudin-1 sequence

 <400> 19
 Xaa Ile Tyr Ser Tyr Cys
 1 5

 <210> 20
 <211> 6
 <212> PRT
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 <220>
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 Synthesis based on mouse claudin-1 sequence

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 <223> Where Xaa is beta,beta-pentamethylene cysteine

 <400> 20
 Xaa Ile Tyr Ser Tyr Cys
 1 5

 <210> 21
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 <220>
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 Xaa Ile Tyr Ser Tyr Cys
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<210> 22
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Synthesis based on mouse claudin-1 sequence

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<223> Cyclic Peptide

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<223> Where Xaa is
beta,beta-pentamethylene-beta-mercaptopropionic
acid

<400> 22
Xaa Ile Tyr Ser Tyr Cys
1 5

<210> 23
<211> 5
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Xaa Ile Tyr Ser Tyr
1 5

<210> 24
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Synthesis

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<400> 24

Trp Gly Gly Trp

1

<210> 25

<211> 15

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<223> Description of Artificial Sequence: Product of
Synthesis based on N-cadherin cell adhesion
recognition sequence

<400> 25

Phe His Leu Arg Ala His Ala Val Asp Ile Asn Gly Asn Gln Val

1

5

10

15

<210> 26

<211> 10

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Product of
synthesis based on E-cadherin cell adhesion
recognition sequence

<400> 26

Leu Phe Ser His Ala Val Ser Ser Asn Gly

1

5

10

<210> 27

<211> 5

<212> PRT

<213> Artificial Sequence

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Synthesis based on mouse claudin-1 sequence

<400> 27

Ile Tyr Ser Tyr Ala

1

5

<210> 28

<211> 6
<212> PRT
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Product of
Synthesis based on mouse claudin-1 sequence

<400> 28
Ile Tyr Ser Tyr Ala Gly
1 5

<210> 29
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Synthesis based on mouse claudin-1 sequence

<400> 29
Lys Ile Tyr Ser Tyr
1 5

<210> 30
<211> 6
<212> PRT
<213> Artificial Sequence

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Synthesis based on mouse claudin-1 sequence

<400> 30
Lys Ile Tyr Ser Tyr Ala
1 5

<210> 31
<211> 7
<212> PRT
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<220>

<223> Description of Artificial Sequence: Product of
Synthesis based on mouse claudin-1 sequence

<400> 31
Lys Ile Tyr Ser Tyr Ala Gly
1 5

<210> 32
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<220>
 <223> Description of Artificial Sequence: Product of
 Synthesis based on mouse claudin-1 sequence

<400> 32
 Trp Lys Ile Tyr Ser Tyr
 1 5

<210> 33
 <211> 7
 <212> PRT
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<220>
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 Synthesis based on mouse claudin-1 sequence

<400> 33
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 1 5

<210> 34
 <211> 8
 <212> PRT
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 <223> Description of Artificial Sequence: Product of
 Synthesis based on mouse claudin-1 sequence

<400> 34
 Trp Lys Ile Tyr Ser Tyr Ala Gly
 1 5

<210> 35
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
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 synthesis based on mouse claudin-2 sequence

<400> 35
 Thr Ser Ser Tyr Val
 1 5

<210> 36
<211> 6
<212> PRT
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Product of
synthesis based on mouse claudin-2 sequence

<400> 36
Thr Ser Ser Tyr Val Gly
1 5

<210> 37
<211> 5
<212> PRT
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Product of
synthesis based on mouse claudin-2 sequence

<400> 37
Arg Thr Ser Ser Tyr
1 5

<210> 38
<211> 6
<212> PRT
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Product of
synthesis based on mouse claudin-2 sequence

<400> 38
Arg Thr Ser Ser Tyr Val
1 5

<210> 39
<211> 7
<212> PRT
<213> Artificial Sequence

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synthesis based on mouse claudin-2 sequence

<400> 39
Arg Thr Ser Ser Tyr Val Gly
1 5

<210> 40
<211> 6
<212> PRT
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Trp Arg Thr Ser Ser Tyr
1 5

<210> 41
<211> 7
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<213> Artificial Sequence

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synthesis based on mouse claudin-2 sequence

<400> 41
Trp Arg Thr Ser Ser Tyr Val
1 5

<210> 42
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
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synthesis based on mouse claudin-2 sequence

<400> 42
Trp Arg Thr Ser Ser Tyr Val Gly
1 5

<210> 43
<211> 5
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synthesis based on human, mouse and monkey CPE-R
sequences

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Val Thr Ala Phe Ile
1 5

<210> 44
<211> 6
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synthesis based on human, mouse and monkey CPE-R
sequences

<400> 44
Val Thr Ala Phe Ile Gly
1 5

<210> 45
<211> 5
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<220>
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synthesis based on human, mouse and monkey CPE-R
sequences

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Arg Val Thr Ala Phe
1 5

<210> 46
<211> 6
<212> PRT
<213> Artificial Sequence

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synthesis based on human, mouse and monkey CPE-R
sequences

<400> 46
Arg Val Thr Ala Phe Ile
1 5

<210> 47
<211> 7
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<220>

<223> Description of Artificial Sequence: Product of
synthesis based on human, mouse and monkey CPE-R
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Arg Val Thr Ala Phe Ile Gly
1 5

<210> 48

<211> 6

<212> PRT

<213> Artificial Sequence

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Trp Arg Val Thr Ala Phe
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<210> 49

<211> 7

<212> PRT

<213> Artificial Sequence

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Trp Arg Val Thr Ala Phe Ile
1 5

<210> 50

<211> 8

<212> PRT

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synthesis based on human, mouse and monkey CPE-R
sequences

<400> 50

Trp Arg Val Thr Ala Phe Ile Gly
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<210> 51

<211> 5
 <212> PRT
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<223> Description of Artificial Sequence: Product of
 synthesis based on human and rat RVP-1 sequences

<400> 51

Val Ser Ala Phe Ile
 1 5

<210> 52

<211> 6

<212> PRT

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 synthesis based on human and rat RVP-1 sequences

<400> 52

Val Ser Ala Phe Ile Gly
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<210> 53

<211> 5

<212> PRT

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 synthesis based on human and rat RVP-1 sequences

<400> 53

Arg Val Ser Ala Phe
 1 5

<210> 54

<211> 6

<212> PRT

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<400> 54

Arg Val Ser Ala Phe Ile
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<210> 55
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<220>
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synthesis based on human and rat RVP-1 sequences

<400> 55
Arg Val Ser Ala Phe Ile Gly
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<210> 56
<211> 6
<212> PRT
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<400> 56
Trp Arg Val Ser Ala Phe
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<210> 57
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Trp Arg Val Ser Ala Phe Ile
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<210> 58
<211> 8
<212> PRT
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<220>
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synthesis based on human and rat RVP-1 sequences

<400> 58
Trp Arg Val Ser Ala Phe Ile Gly
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<210> 59
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synthesis based on mouse claudin-1 sequence

<220>
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<400> 59
Cys Ile Tyr Ser Tyr Cys
1 5

<210> 60
<211> 7
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<220>
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synthesis based on mouse claudin-1 sequence

<220>
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<400> 60
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1 5

<210> 61
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synthesis based on mouse claudin-1 sequence

<220>
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<400> 61
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<210> 62
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synthesis based on mouse claudin-1 sequence

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<223> Cyclic Peptide

<400> 62

Cys Lys Ile Tyr Ser Tyr Cys
1 5

<210> 63

<211> 8

<212> PRT

<213> Artificial Sequence

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synthesis based on mouse claudin-1 sequence

<220>

<223> Cyclic Peptide

<400> 63

Cys Lys Ile Tyr Ser Tyr Ala Cys
1 5

<210> 64

<211> 9

<212> PRT

<213> Artificial Sequence

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synthesis based on mouse claudin-1 sequence

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<223> Cyclic Peptide

<400> 64

Cys Lys Ile Tyr Ser Tyr Ala Gly Cys
1 5

<210> 65

<211> 8

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Product of
synthesis based on mouse claudin-1 sequence

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<223> Cyclic Peptide

<400> 65

Cys Trp Lys Ile Tyr Ser Tyr Cys

1 5

<210> 66
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 <212> PRT
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<220>
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 synthesis based on mouse claudin-1 sequence

<220>
 <223> Cyclic Peptide

<400> 66
 Cys Trp Lys Ile Tyr Ser Tyr Ala Cys
 1 5

<210> 67
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 <212> PRT
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 synthesis based on mouse claudin-1 sequence

<220>
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<400> 67
 Cys Trp Lys Ile Tyr Ser Tyr Ala Gly Cys
 1 5 10

<210> 68
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
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 synthesis based on mouse claudin-1 sequence

<220>
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<400> 68
 Lys Ile Tyr Ser Tyr Asp
 1 5

<210> 69
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Product of
synthesis based on mouse claudin-1 sequence

<220>

<223> Cyclic Peptide

<400> 69

Lys Ile Tyr Ser Tyr Ala Asp
1 5

<210> 70

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Product of
synthesis based on mouse claudin-1 sequence

<220>

<223> Cyclic Peptide

<400> 70

Lys Ile Tyr Ser Tyr Ala Gly Asp
1 5

<210> 71

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Product of
synthesis based on mouse claudin-1 sequence

<220>

<223> Cyclic Peptide

<400> 71

Lys Lys Ile Tyr Ser Tyr Asp
1 5

<210> 72

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Product of
synthesis based on mouse claudin-1 sequence

<220>

<223> Cyclic Peptide

<400> 72

Lys Lys Ile Tyr Ser Tyr Ala Asp
1 5

<210> 73

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Product of
synthesis based on mouse claudin-1 sequence

<220>

<223> Cyclic Peptide

<400> 73

Lys Lys Ile Tyr Ser Tyr Ala Gly Asp
1 5

<210> 74

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Product of
synthesis based on mouse claudin-1 sequence

<220>

<223> Cyclic Peptide

<400> 74

Lys Trp Lys Ile Tyr Ser Tyr Asp
1 5

<210> 75

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Product of
synthesis based on mouse claudin-1 sequence

<220>

<223> Cyclic Peptide

<400> 75

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